



Subject card

Subject name and code	Risk Management in the Enterprise, PG_00068642						
Field of study	Economic Analytics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	first-cycle studies		Subject group		Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies (on-line)		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Finance -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	16.0	0.0	0.0	0.0	24
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	24		5.0		71.0	100
Subject objectives	Describes methods of hedging against different types of risks and their identification and calculation.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W03] is familiar with reliable sources of information and employs advanced knowledge to explain the fundamental dilemmas of the contemporary economy		identifies reliable sources of information for risk definition and analysis		[SW1] Assessment of factual knowledge		
	[K6_U06] acquires specialized knowledge in the field of economic analytics, demonstrating the ability to effectively plan individual work and pursue lifelong learning.		acquires new knowledge necessary for selecting and applying appropriate risk hedging instruments		[SU4] Assessment of ability to use methods and tools		
Subject contents	Concept of risk, classification and identification of risks. Risk management process. Calculation of risk measures (standard deviation, semistandard deviation, coefficient of variation, VAR). Quantification of risk by means of: risk map, Risk Score method, stress tests. Risk assessment using scenario analysis and sensitivity analysis. Application of currency risk hedging transactions (forwards, futures, options, swaps, zero-cost corridors). Toxic option products. Application of interest rate hedging transactions (FRA, options, caps, floors, collars). Hedging against default risk. The concept and settlement of CDS transactions. Application of weather risk hedging transactions (forwards, options, swaps, catastrophe bonds).						
Prerequisites and co-requisites	Knowledge of financial management.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Colloquium		60.0%		100.0%		

Recommended reading	Basic literature	Benett, D. (2000). Ryzyko walutowe. Kraków: Dom Wydawniczy ABC. Jajuga, K. (red.). (2007 oraz 2019 wydanie II) Zarządzanie ryzykiem. Warszawa: PWN. Kaczmarek, T.T. (2005). Ryzyko i zarządzanie ryzykiem. Warszawa: Difin. Kalinowski, M. (2009). Zarządzanie ryzykiem stopy procentowej w przedsiębiorstwie. Warszawa: CeDeWu. Kalinowski, M. (2007). Zarządzanie ryzykiem walutowym w przedsiębiorstwie. Warszawa: CeDeWu. Karkowski, P. (2009). Toksyczne opcje. Od zaufania do bankructwa. Warszawa: GreenCapital.pl. Maliszewski, J. (2013). Zarządzanie ryzykiem kursu walutowego w przedsiębiorstwie. Warszawa: Wydawnictwo Linia. Preś, J. (2007). Zarządzanie ryzykiem pogodowym. Warszawa: Cedewu. Tarczyński, W., Mojsiewicz, M. (2001). Zarządzanie ryzykiem. Warszawa: PWE. Woźniak, J., Wereda, W. (red.). (2018). Mapa ryzyka w zarządzaniu organizacją. Warszawa: CeDeWu.
	Supplementary literature	Best, P. (2000). Wartość narażona na ryzyko. Kraków: Dom Wydawniczy ABC.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	List and characterise of internal hedging methods against exchange rate risk. List and characterise the external instruments for hedging currency and interest rate risk. Prepare risk map on the basis of specific company data.	
Work placement	Not applicable	

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